

FIGURE 1

AGGCCGTGCC	TATCCAGAAA	GTCCAGGATG	ACACCAAAAC	CCTCATCAAG	ACAATTGTCA
V P	I Q K	V Q D	D T K T	L I K	T I V
CCAGGATCAA	TGACATCTCA	CACACGCAGT	CCGTCTCCTC	CAAACAGAGG	GTCACTGGTT
T R I N	D I S	H T Q	S V S S	K Q R	V T G
TGGACTION	CCCTGGGCTC	CACCCTCTCC	TGAGTTTGTC	CAAGATGGAC	CAGACATTGG
L D F I	P G L	H P L	L S L S	K M D	Q T L
CGATCTACCA	ACAGATCCTC	ACCAGTCTGC	CTTCCAGAAA	TGTGGTCCAA	ATATCCAATG
A I Y Q	Q I L	T S L	P S R N	V V Q	I S N
ACCTGGAGAA	CCTCCGGGAC	CTTCTCCACC	TGCTGGCCGC	CTCCAAGAGC	TGCCCCTTGC
D L E N	L R D	L L H	L L A A	S K S	C P L
CGCAGGTCAG	GGCCCTGGAG	AGCTTGGAGA	GCTTGGGTGT	CGTCCTGGAA	GCCTCCCTCT
P Q V R	A L E	S L E	S L G V	V L E	A S L
ACTCCACCGA	GGTGGTGGCC	CTGAGCCGGC	TGCAGGGGTC	ACTACAGGAC	ATGTTGCGGC
Y S E E	V V A	L S R	L Q G S	L Q D	M L R
AGCTGGACCT	CAGCCCTGAA	TGCAGCGCT			
Q L D L	S P E	C			

FIGURE 2A

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Query:   1 AGGCCGTGCCTATCCAGAAAGTCCAGGATGACACCAAACCCTCATCAAGACAATTGTCA 60
          |||
Sbjct:  59 AAGCTGTGCCCATCCAAAAGTCCAAGATGACACCAAACCCTCATCAAGACAATTGTCA 118

Query:   61 CCAGGATCAATGACATCTCACACACGCAGTCCGTCTCCTCCAAACAGAGGGTCACTGGTT 120
          |||
Sbjct:  119 CCAGGATCAATGACATTTACACACGCAGTCAGTCTCCTCCAAACAGAAAGTCACCGGTT 178

Query:   121 TGGACTTCATCCCTGGGCTCCACCCTCTCCTGAGTTTGTCCAAGATGGACCAGACATTGG 180
          |||
Sbjct:  179 TGGACTTCATTCTGGGCTCCACCCCATCCTGACCTTATCCAAGATGGACCAGACACTGG 238

Query:   181 CGATCTACCAACAGATCCTCACCAGTCTGCCTTCCAGAAATGTGGTCCAAATATCCAATG 240
          |||
Sbjct:  239 CAGTCTACCAACAGATCCTCACCAGTATGCCTTCCAGAAACGTGATCCAAATATCCAACG 298

Query:   241 ACCTGGAGAACCTCCGGGACCTTCTCCACCTGCTGGCCGCTCCAAAGAGCTGCCCCCTTGC 300
          |||
Sbjct:  299 ACCTGGAGAACCTCCGGGATCTTCTTCACGTGCTGGCCTTCTCTAAGAGCTGCCACTTGC 358

Query:   301 CGCAGGTCAGGGCCCTGGAGAGCTTGGAGAGCTTGGGTGTCGTCCTGGAAGCCTCCCTCT 360
          |||
Sbjct:  359 CCTGGGCCAGTGGCCTGGAGACCTTGGACAGCCTGGGGGGTGTCTGGAAGCTTCAGGCT 418

Query:   361 ACTCCACCGAGGTGGTGGCCCTGAGCCGGCTGCAGGGGTCACTACAGGACATGTTGCGGC 420
          |||
Sbjct:  419 ACTCCACAGAGGTGGTGGCCCTGAGCAGGCTGCAGGGGTCTCTGCAGGACATGCTGTGGC 478

Query:   421 AGCTGGACCTCAGCCCTGAATGCAG 445
          |||
Sbjct:  479 AGCTGGACCTCAGCCCTGGGTGCTG 503

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Query = bovine leptin cDNA  
Sbjct = human leptin cDNA

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Query = bovine leptin cDNA
Sbjct = murine leptin cDNA
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FIGURE 3A

				10	20	30	—39
Clconl				VPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQ	RV	TGL	
Ob_Hum	MHWGTL	CGFLWL	WPYLFY	VQAVPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQ	RV	TGL	
	10	20	30	40	50	60	
	40	50	60	70	80	90	99
Clconl	DFIPGLHPLLSLSKMDQTLAIYQQILTS	PSRN	VQISNDLENLRDLLHLLAASKSCPLP				
Ob_Hum	DFIPGLHPILTSLKMDQTLAVYQQILTS	MP	SRNVIQISNDLENLRDLLHVLA	FSKS	SCHLP		
	70	80	90	100	110	120	
	100	110	120	130	140		
Clconl	QVRALESLESLGVVLEASLYSTE	VVALSR	LQGS	LQDMLRQDL	SPEC		
	:::						
Ob_Hum	WASGLETLD	SLGGVLEASGYSTE	VVALSR	LQGS	LQDMLWQDL	SPGC	
	130	140	150	160			

Clconl = predicted bovine leptin amino acid sequence  
 Ob Hum = human leptin amino acid sequence

FIGURE 3B

				10	20	30	39
Clcon1				VPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQRTGL			
Ob_Mou	MCWRPLCRFLWLWSYLSYVQAVPIQKVQDDTKTLIKTIVTRINDISHTQSVSAKQRTGL						
	10	20	30	40	50	60	
	40	50	60	70	80	90	99
Clcon1	DFIPGLHPILLSLSKMDQTLAIYQQILTSLP SRNVVQISNDLENLRDLLHLLAASKSCPLP						
Ob_Mou	DFIPGLHPILSLSKMDQTLAVYQQVLTSLPSQNVLQIANDLENLRDLLHLLAFSKSCSLP						
	70	80	90	100	110	120	
	100	110	120	130	140		
Clcon1	QVRALESLES LGVVLEASLYSTE VVALSR LQGS LQDMLRQLDLSPEC						
Ob_Mou	QTSG LQKPESLDGVLEASLYSTE VVALSR LQGS LQDILQQLDVSPEC						
	130	140	150	160			

Clcon1 = predicted bovine leptin amino acid sequence  
Ob Mou = murine leptin amino acid sequence

FIGURE 4

1 VPIQKVQDDTKTLIKTIVTRINDISHTQSV 30

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FIGURE 5A

Query: 1 VPIQKVQDDTKTLIKTIVTRINDISHTQSV 30  
Sbjct: 22 VPIQKVQDDTKTLIKTIVTRINDISHTQSV 51

Query = actual bovine leptin amino acid sequence  
Sbjct = human leptin amino acid sequence

Query: 1 VPIQKVQDDTKTLIKTIVTRINDISHTQSV 30  
Sbjct: 22 VPIQKVQDDTKTLIKTIVTRINDISHTQSV 51

FIGURE 5B

Query: 1 VPIQKVQDDTKTLIKTIVTRINDISHTQSV 30

Sbjct: 22 VPIQKVQDDTKTLIKTIVTRINDISHTQSV 51

Query = actual bovine leptin amino acid sequence  
Sbjct = murine leptin amino acid sequence



**FIG. 6**

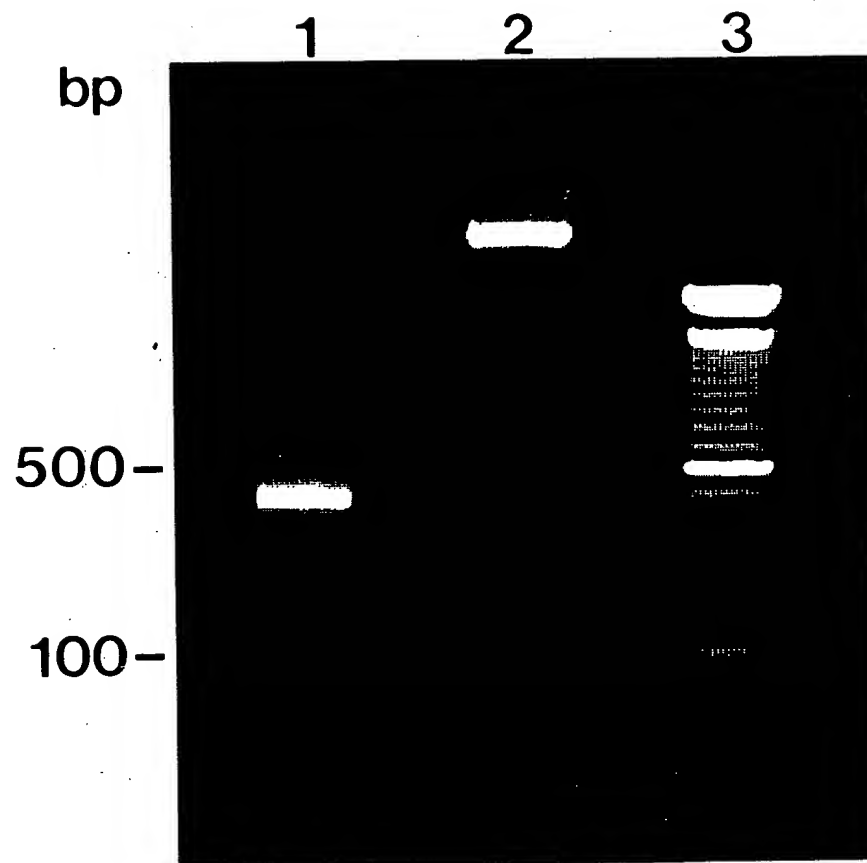


FIG. 7

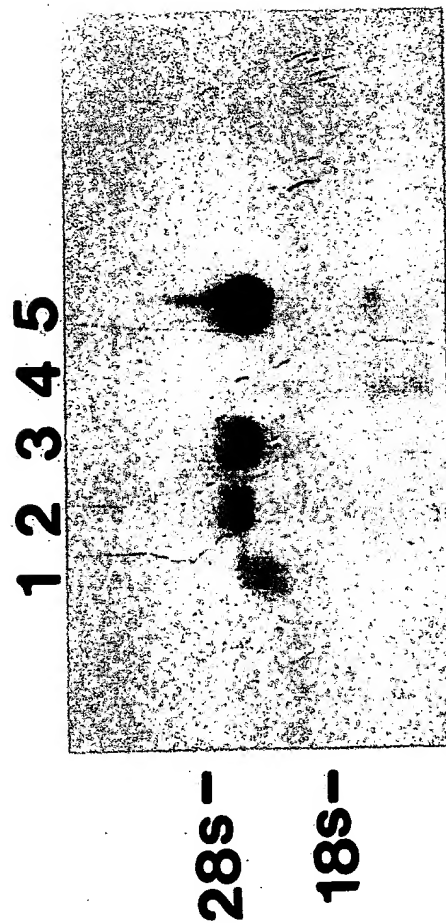


FIG. 8

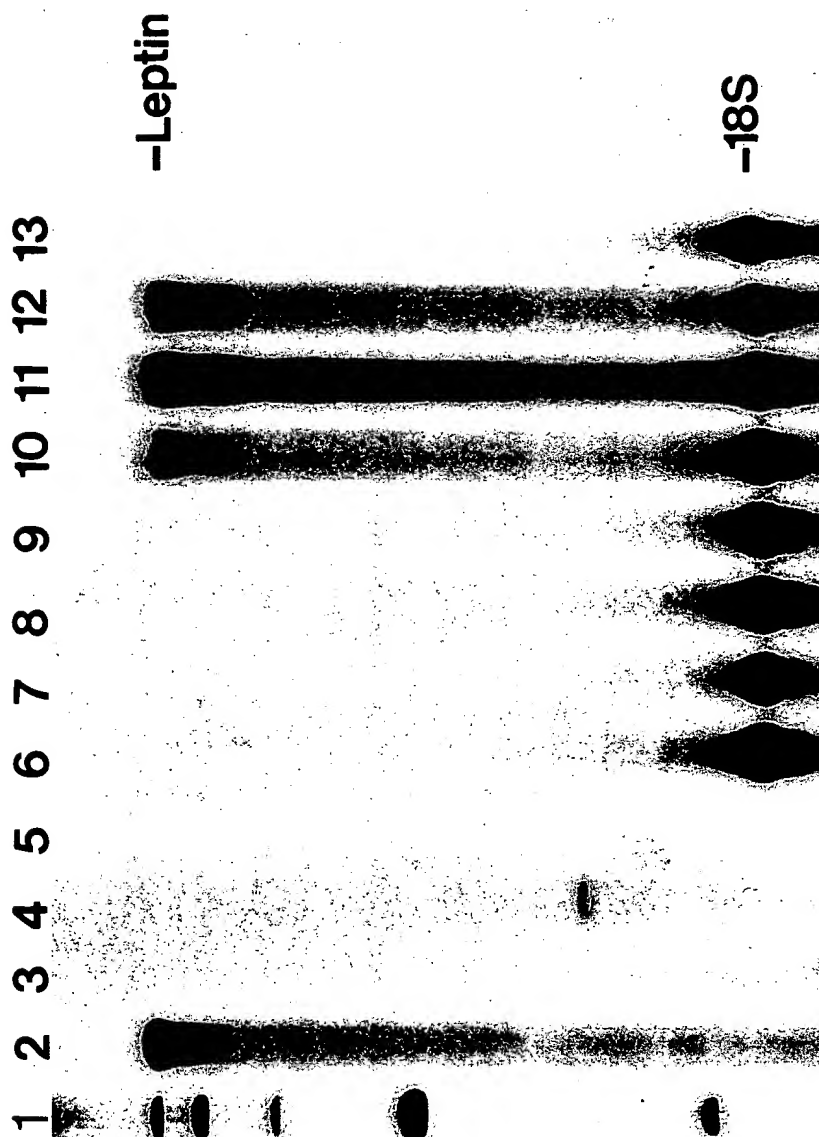


FIG. 9

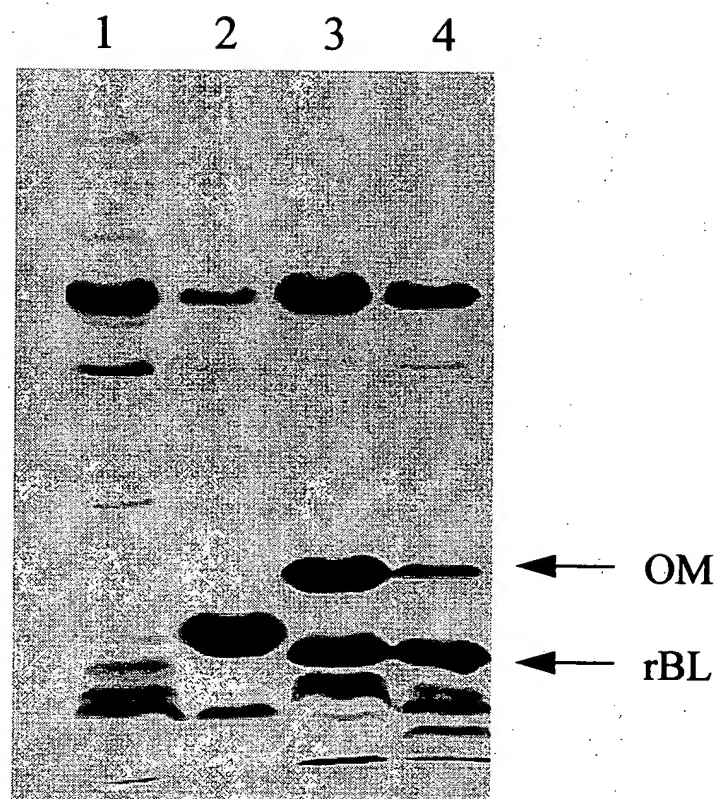


FIG. 10

1	VPIQKVQDDT	KTLIKTIIVTR	INDISHTQSV	SSKQRTGLD	40
	FIPGLHPLLS	LSKMDQTLAI	YQQILTSLPS	RNVVQISNDL	80
	ENLRDLLHLL	AASKSCPLPQ	VRALESLESL	GVVLEASLYS	120
	TEVVALSRlQ	GSLQDMLRQL	DLSPEC		146

FIG. 11A

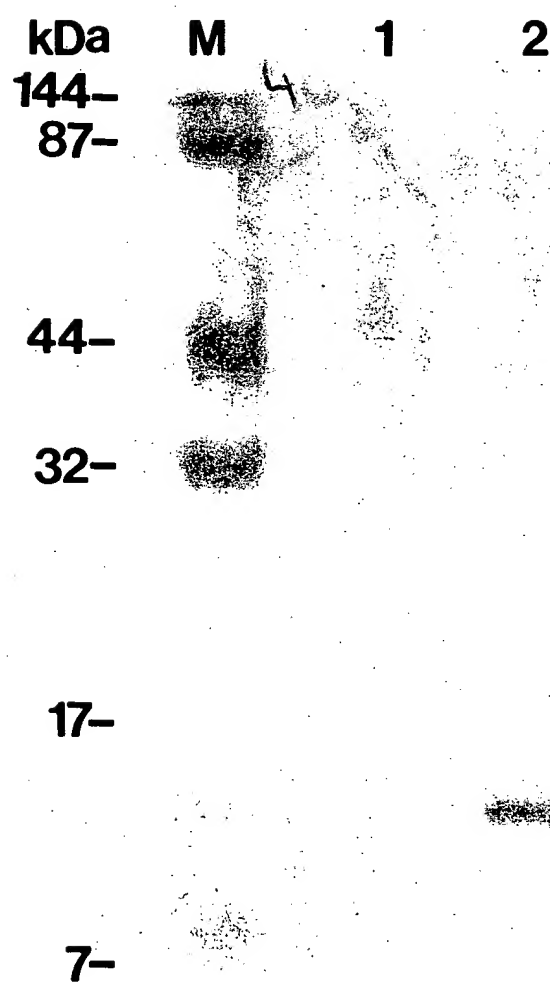


FIG. 11B

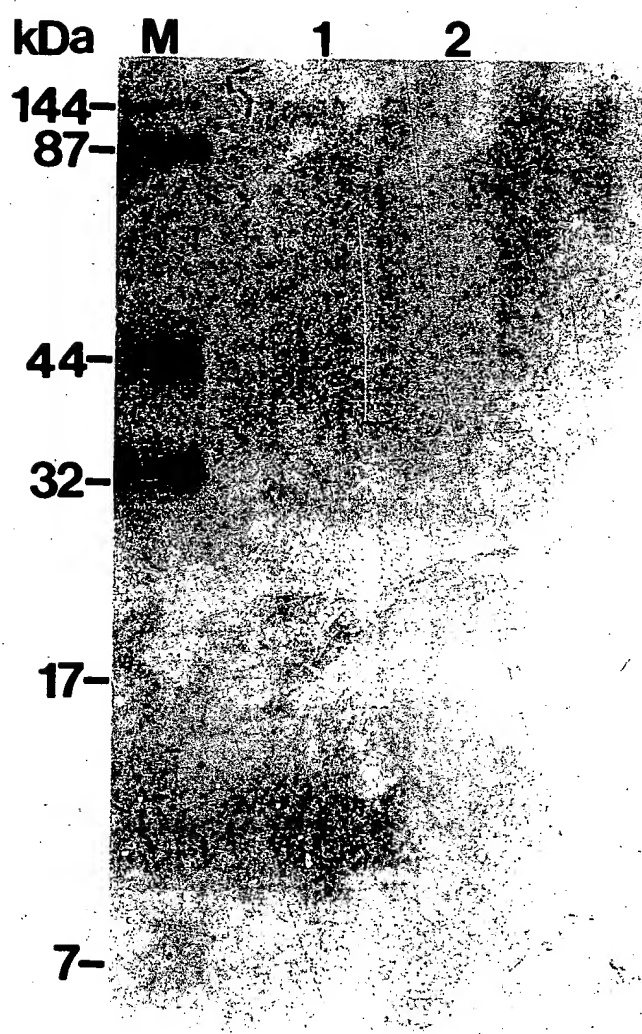


FIG. 12A

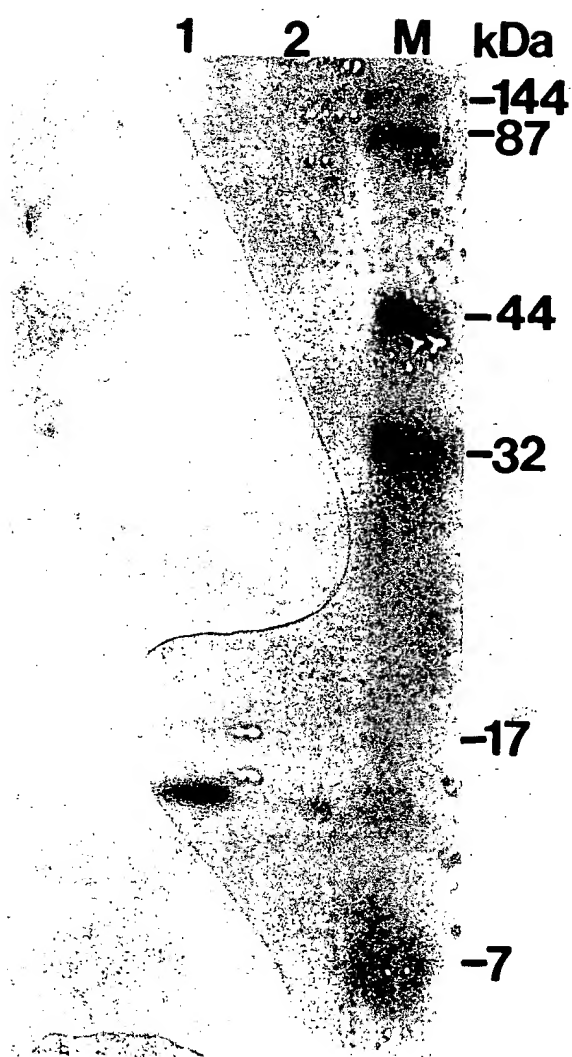




FIG. 12B

